

03500.014930



PATENT

6ePZ

44

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of:)
SHINGO HAYAKAWA)
Appln. No.: 09/714,266)
Filed: November 17, 2000)
For: OPTICAL LOW-PASS FILTER, AND)
IMAGE SENSING UNIT AND)
APPARATUS USING THE SAME)
Examiner: Leonidas Boutsikaris
Group Art Unit: 2872
Patent No.: 6,963,448 B1
Issued: November 8, 2005
April 7, 2006

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Certificate
APR 12 2006
of Correction

Attention: CERTIFICATE OF CORRECTION BRANCH

**REQUEST FOR CERTIFICATE OF CORRECTION
UNDER RULES 322 AND 323**

Sir:

It is respectfully requested that a Certificate of Correction be issued by the Patent and Trademark Office due to errors which appear in the printed patent as a result of Patent and Trademark Office mistakes, and mistakes of a clerical, typographical, or minor character, which were not the fault of the Patent and Trademark Office. A Certificate of

Correction form (Form PTO-1050), in duplicate, is enclosed.

04/10/2006 100001 00000071 6963448

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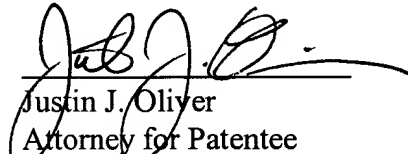
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Accompanying this letter is a check for \$100.00 to cover the statutory fee for issuing a Certificate of Correction to correct errors of the patentee. Any deficiency should be charged, or any overpayment credited, to Deposit Account No. 06-1205. A duplicate of this paper is enclosed for this purpose.

Patentees' undersigned attorney may be reached by telephone in our Washington, D.C. office at (202) 530-1010 or by facsimile at (202) 530-1055. All correspondence should be directed to our address given below.

Respectfully submitted,



Justin J. Oliver
Attorney for Patentee
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CERTIFICATE OF CORRECTION

PATENT NO. : 6,963,448 B1

DATED : November 8, 2005

INVENTOR(S) : Shingo Hayakawa

Page 1 of 3

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

ON THE COVER PAGE

At Item (56), Other Publications, "Using" should read --Use--.

COLUMN 1

Line 49, "utilizes" should read --utilize--.

COLUMN 9

Line 58, "two," should read --two--.

COLUMN 11

Line 41, " $D2 \leq P/\sqrt{2}$ " should read -- $D2 \leq P/2$ --.

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Line 28, "shows" should read --show--;

Line 59, "optical imaged" should read

--optical low-pass filter 2 of the first embodiment. Note that the long side direction of the optical low-pass filter 102 substantially agrees with that of the image sensing element.

Fig. 7B shows the optical low-pass filter 102 of this embodiment viewed from a "7B" view direction in Fig. 7A, and Fig. 7C is a partially enlarged view of Fig. 7B. In Figs. 7B and 7C, z1 represents the z-axis of the birefringence plate 121, and the z-axis z1 of the birefringence plate 121 and the normal to the entrance/exit surface of the optical low-pass filter 102 make an angle θ_1 , as shown in Fig. 7C. In this embodiment, $\theta_1 = 15^\circ$. Fig. 7D shows the optical low-pass filter 102 of this embodiment viewed from a "7D" view direction in Fig. 7A, and Fig. 7E is a partially enlarged view of Fig. 7D. In Figs. 7D and 7E, z2 represents the z-axis of the birefringence plate 122, and the z-axis z2 of the birefringence plate 122 and the normal to the entrance/exit surface of the optical low-pass filter 102 make an angle θ_2 , as shown in Fig. 7E. In this embodiment, $\theta_2 = 35^\circ$. Furthermore, thicknesses d1 and d2 of the birefringence plates 121 and 122 are respectively d1 = 0.30 mm and d2 = 0.30 mm.

In the optical low-pass filter 102 of this embodiment, since the birefringence plates 121 and 122 are arranged in this manner, extraordinary rays are imaged.--; and Line 63, "angle e" should read --angle θ --.

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COLUMN 16

Lines 19-41 should be deleted; and

Line 42, "this manner, extraordinary rays are" should be deleted.

COLUMN 19

Line 9, "ant-" should read --anti- --.

COLUMN 24

Line 63, " $D1 \cong D3 > 2$ " should read -- $D1 = D3 > D2$ --.

COLUMN 25

Line 34, "comprising" should read --comprises--.

COLUMN 26

Line 8, " $D1 \cong D3 > 2$ " should read -- $D1 = D3 > D2$ --.

Line 26, "are" should read --is--.

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